Author Index of Volume 170

Andersson, P., 191
Aoyagi, I., 55
Auret, J.G., 185

Barnwal, S., 255
Bayoumi, A.E., 255
Bhowmick, A.K., 25
Blackmore, D., 1
Blomberg, A., 191
Brandon, N.P., 33
Bryant, M.D., 267
Bulatov, V.P., 167

Chaudhuri, D.K., 39
Cho, S.J., 101
Choi, M.-S., 131
Compos, R., 39
Cui, K., 161

Damm, O.F.R.A., 185
Damodarasamy, S., 149
Dowson, D., 281

Fisher, J., 281

Gafitanu, M.D., 219
Ganapathi, S.K., 173
Guillou, M.-O., 247

Harris, S.J., 63
Henshall, J.L., 247
Hooper, R.M., 247
Hutton, D.V., 255

Isshiki, T., 55

Jaffar, M.J., 291
Jin, Z.M., 281

Karimi, D., 109
Khastgir, D., 25
Kim, J.-D., 131
Kim, S.S., 101

Lauer, J.L., 173
Lee, S.H., 137
Lehtinen, B., 119
Leu, M.C., 1
Lim, S.C., 137
Lin, J.S., 45
Lin, J.-W., 267
Liu, Y.B., 137

McColl, I.R., 63
Minnear, W.P., 79
Molian, P.A., 199
Moussa, A.M.A., 199

Nielsen, G.T., 71
Nishio, K., 55

Olaru, D.N., 219
Olofsson, U., 235

Pathak, J.P., 109

Raman, S., 149
Robinson, F.P.A., 185

Saijo, H., 55
Šalak, A., 211
Sargent, B.L., 173
Schedin, E., 119
Seah, K.H.W., 137
Selecká, M., 211
Shehata, G.H., 199
Shiojiri, M., 55
Siegwarth, J.D., 39
Singh, R., 1
Singh, U.P., 1
Skelly, D.W., 79
Slifka, A.J., 39
Su, Y.L., 45

Takadoum, J., 285
Takahashi, N., 55
Talke, F.E., 15, 173
Tao, Z., 161
Thavamani, P., 25
Tiwari, S.N., 109

Vedernikov, D.N., 167
Vlcek, B.L., 173

Walter, J.L., 79
Waterhouse, R.B., 63
Wood, R.J.K., 33
Wright, G.J., 185

Yabuuchi, Y., 55
Yang, M., 15
Yang, S., 161
Yang, S.H., 101
Yoon, K.J., 101
Yoon, M.S., 101

Zeng, X., 161
Zhou, G.Y., 1
Zhu, B., 161

Elsevier Sequoia

Subject Index of Volume 170

Ageing
effect of ageing on strength and wear of tank track pad compounds, 25
Al–Si–Cd bearing alloys
room temperature wear characteristics of Al–Si–Cd bearing alloys, 109
Alumina
alumina in unlubricated sliding point, line and plane contacts, 191
tribological behaviour of alumina sliding on several kinds of materials, 285
Aqueous drilling mud
the influence of interfacial potential on friction and wear in an aqueous drilling mud, 33

Ball–race contacts
starvation in ball bearings, 219

Carbides
coarse cemented WC particle ceramic–metal composite coatings produced by laser cladding, 161
Cavitation erosion
the pressure and velocity dependence of flow-type cavitation erosion, 185
Ceramics
coarse cemented WC particle ceramic–metal composite coatings produced by laser cladding, 161
repeated point contact loading on Ce–TZP*, 247
Chebyshev series
determination of surface deformation of a bonded elastic layer indented by a rigid cylinder using the Chebyshev series method, 291
Coatings
an investigation of the tribological potential of TiN, CrN and TiN + CrN physical vapor deposited coatings in machine element applications, 45
Cobalt
ion implantation of cobalt–tungsten carbide tools for machining titanium, 79
Composites
coarse cemented WC particle ceramic–metal composite coatings produced by laser cladding, 161
Contact geometry
alumina in unlubricated sliding point, line and plane contacts, 191
Contact phenomena
photoelastic visualization of contact phenomena between real tribological surfaces, with and without sliding, 267
Contacts
microslip and traction in rolling contacts between steel specimens with surface layers containing sulphur, 71
repeated point contact loading on Ce–TZP*, 247
Cutting tools
wear maps for uncoated high-speed steel cutting tools, 137

Deformation
determination of surface deformation of a bonded elastic layer indented by a rigid cylinder using the Chebyshev series method, 291

Elastic layers
minimum and central film thickness formulae for an elastic layer firmly bonded to a rigid cylindrical substrate under entraining motion, 281
Experimental analysis
stochastic approach to experimental analysis of cylindrical lapping process, 131

Fatigue
on the influence of fatigue on machine part wear, 167
repeated point contact loading on Ce–TZP*, 247
Fatigue endurance
rolling contact fatigue endurance of powder-extruded bearing steel, 211
Flank wear
prediction of flank wear and engagements from force measurements in end milling operations, 255
Fractal geometry
fractal geometry model for wear prediction, 1
Fretting damage
fretting damage in locked coil steel ropes, 63
Friction
friction characteristics of a ferritic–austenitic stainless steel during lubricated reciprocating motion, 235

Galling mechanisms
galling mechanisms in lubricated systems: a study of sheet metal forming, 119

High-speed steel
wear maps for uncoated high-speed steel cutting tools, 137
Hostile environments
a tribometer for measurements in hostile environments, 39
HSS tools
Nd:YAG laser alloying of high-speed steel tools with BN and Ti/BN and the effects on turning performance, 199

Interfaces
wear of the magnetic head–carbon overcoated disk interface. A Raman spectroscopy study, 173
Interfacial potential
the influence of interfacial potential on friction and wear in an aqueous drilling mud, 33
Ion implantation
ion implantation of cobalt–tungsten carbide tools for machining titanium, 79

Lapping
stochastic approach to experimental analysis of cylindrical lapping process, 131
Laser alloying
Nd:YAG laser alloying of high-speed steel tools with BN and Ti/BN and the effects on turning performance, 199
Laser cladding
coarse cemented WC particle ceramic–metal composite coatings produced by laser cladding, 161

Layer structure
high resolution transmission electron microscopy of layer structure and stacking faults in tungsten disulphide lubricants, 55
Locked coil
fretting damage in locked coil steel ropes, 63
Lubricated systems
galling mechanisms in lubricated systems: a study of sheet metal forming, 119
Lubrication
friction characteristics of a ferritic–austenitic stainless steel during lubricated reciprocating motion, 235

Machine elements
an investigation of the tribological potential of TiN, CrN and TiN+CrN physical vapor deposited coatings in machine element applications, 45
Machine part wear
on the influence of fatigue on machine part wear, 167
Magnetic head
wear of the magnetic head–carbon overcoated disk interface. A Raman spectroscopy study, 173
Magnetic recording disks
surface roughness investigation of magnetic recording disks using STM and profilometry measurements, 15
Microslip
microslip and traction in rolling contacts between steel specimens with surface layers containing sulphur, 71
Microstructure
wear investigation of wheel and rail steels under conditions of sliding and rolling–sliding contact with particular regard to microstructural parameters, 1
Milling
prediction of flank wear and engagements from force measurements in end milling operations, 255

Orthogonal array
stochastic approach to experimental analysis of cylindrical lapping process, 131

Pattern recognition
an inexpensive system for classifying tool wear states using pattern recognition, 149
Powder extruded bearing steel
rolling contact fatigue endurance of powder-extruded bearing steel, 211
Profilometry
surface roughness investigation of magnetic recording disks using STM and profilometry measurements, 15
PVD
an investigation of the tribological potential of TiN, CrN and TiN+CrN physical vapor deposited coatings in machine element applications, 45

Raman spectroscopy
wear of the magnetic head–carbon overcoated disk interface. A Raman spectroscopy study, 173
Rolling
microslip and traction in rolling contacts between steel specimens with surface layers containing sulphur, 71
Rolling contact
rolling contact fatigue endurance of powder-extruded bearing steel, 211

Sheet metal forming
galling mechanisms in lubricated systems: a study of sheet metal forming, 119
Sliding
wear mechanism of TiN-coated high-speed steel during sliding, 101
tribological behaviour of alumina sliding on several kinds of materials, 285
Sliding and rolling-sliding
wear investigation of wheel and rail steels under conditions of sliding and rolling–sliding contact with particular regard to microstructural parameters, 1
Stacking faults
high resolution transmission electron microscopy of layer structure and stacking faults in tungsten disulphide lubricants, 55
Starvation
starvation in ball bearings, 219
Steel
microslip and traction in rolling contacts between steel specimens with surface layers containing sulphur, 71
friction characteristics of a ferritic–austenitic stainless steel during lubricated reciprocating motion, 235
Steel ropes
fretting damage in locked coil steel ropes, 63
Substrates
minimum and central film thickness formulae for an elastic layer firmly bonded to a rigid cylindrical substrate under entraining motion, 281
Surface roughness
surface roughness investigation of magnetic recording disks using STM and profilometry measurements, 15

Tank track pad compounds
effect of ageing on strength and wear of tank track pad compounds, 25
Thickness
minimum and central film thickness formulae for an elastic layer firmly bonded to a rigid cylindrical substrate under entraining motion, 281
TiN-coated HSS
wear mechanism of TiN-coated high-speed steel during sliding, 101
Titanium
ion implantation of cobalt–tungsten carbide tools for machining titanium, 79
Tool wear
an inexpensive system for classifying tool wear states using pattern recognition, 149
Traction
microslip and traction in rolling contacts between steel specimens with surface layers containing sulphur, 71
Tribology
photoelastic visualization of contact phenomena between real tribological surfaces, with and without sliding, 267
tribological behaviour of alumina sliding on several kinds of materials, 285
Tribometer
a tribometer for measurements in hostile environments, 39

Tungsten
ion implantation of cobalt–tungsten carbide tools for machining titanium, 79
Tungsten disulphide lubricants
high resolution transmission electron microscopy of layer structure and stacking faults in tungsten disulphide lubricants, 55
Wear maps
wear maps for uncoated high-speed steel cutting tools, 137
Wear prediction
fractal geometry model for wear prediction, 1
Wheel and rail steels
wear investigation of wheel and rail steels under conditions of sliding and rolling–sliding contact with particular regard to microstructural parameters, 1